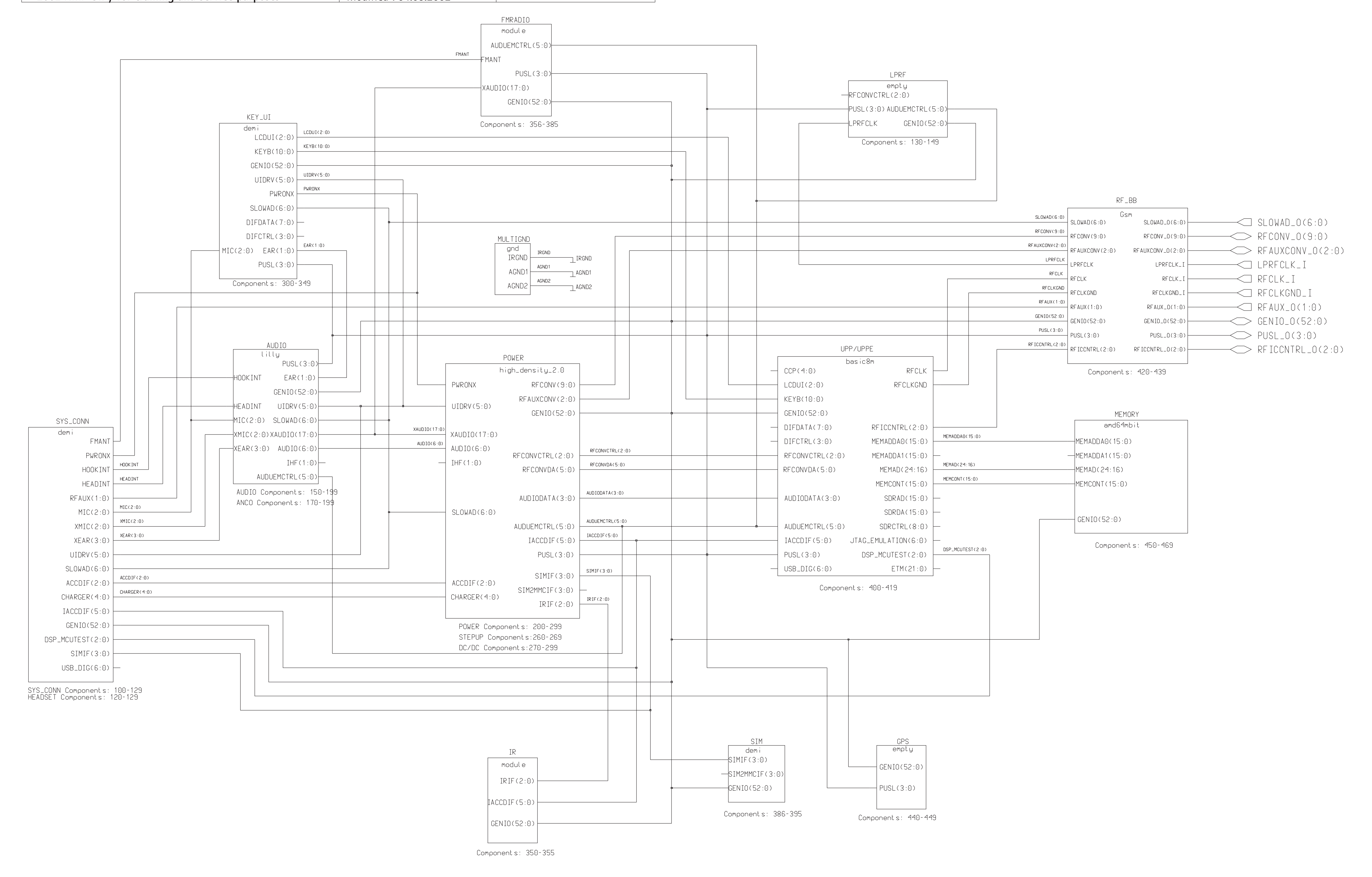
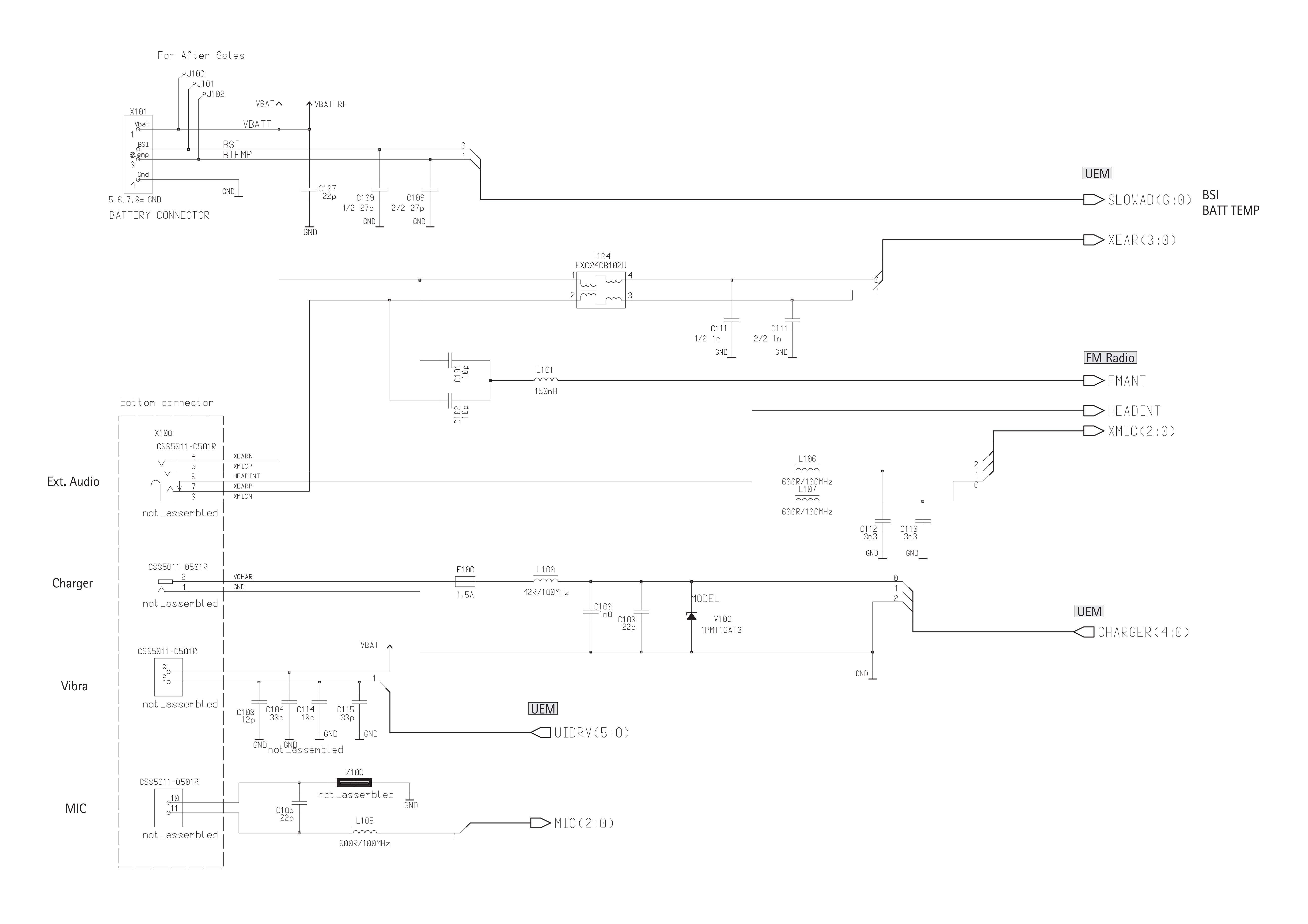
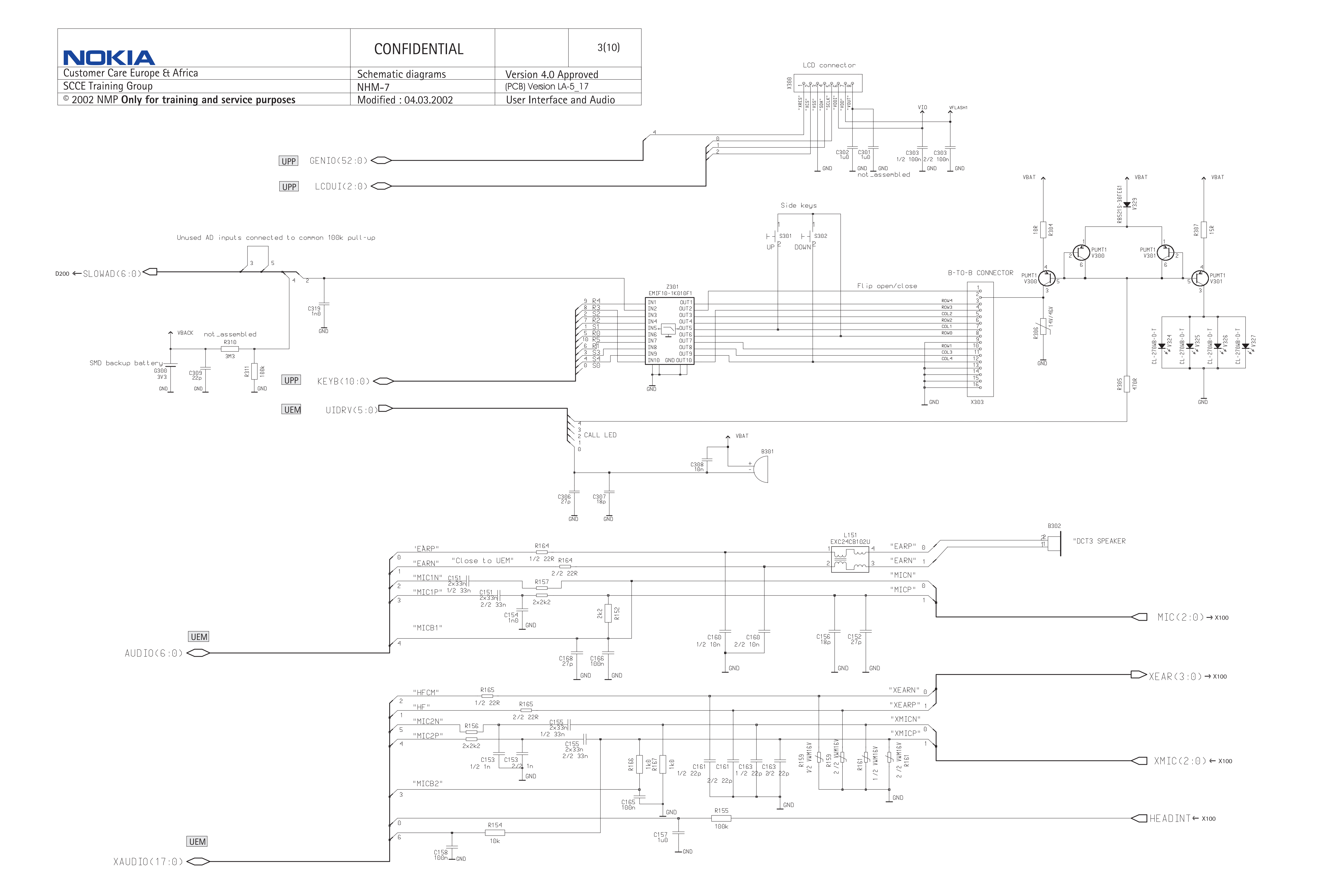
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Customer Care Europe & Africa	Schematic diagrams	Version 4.0 Approved	
SCCE Training Group	NHM-7	(PCB) Version LA-5_17	
	Modified : 04.03.2002	BB Connections	

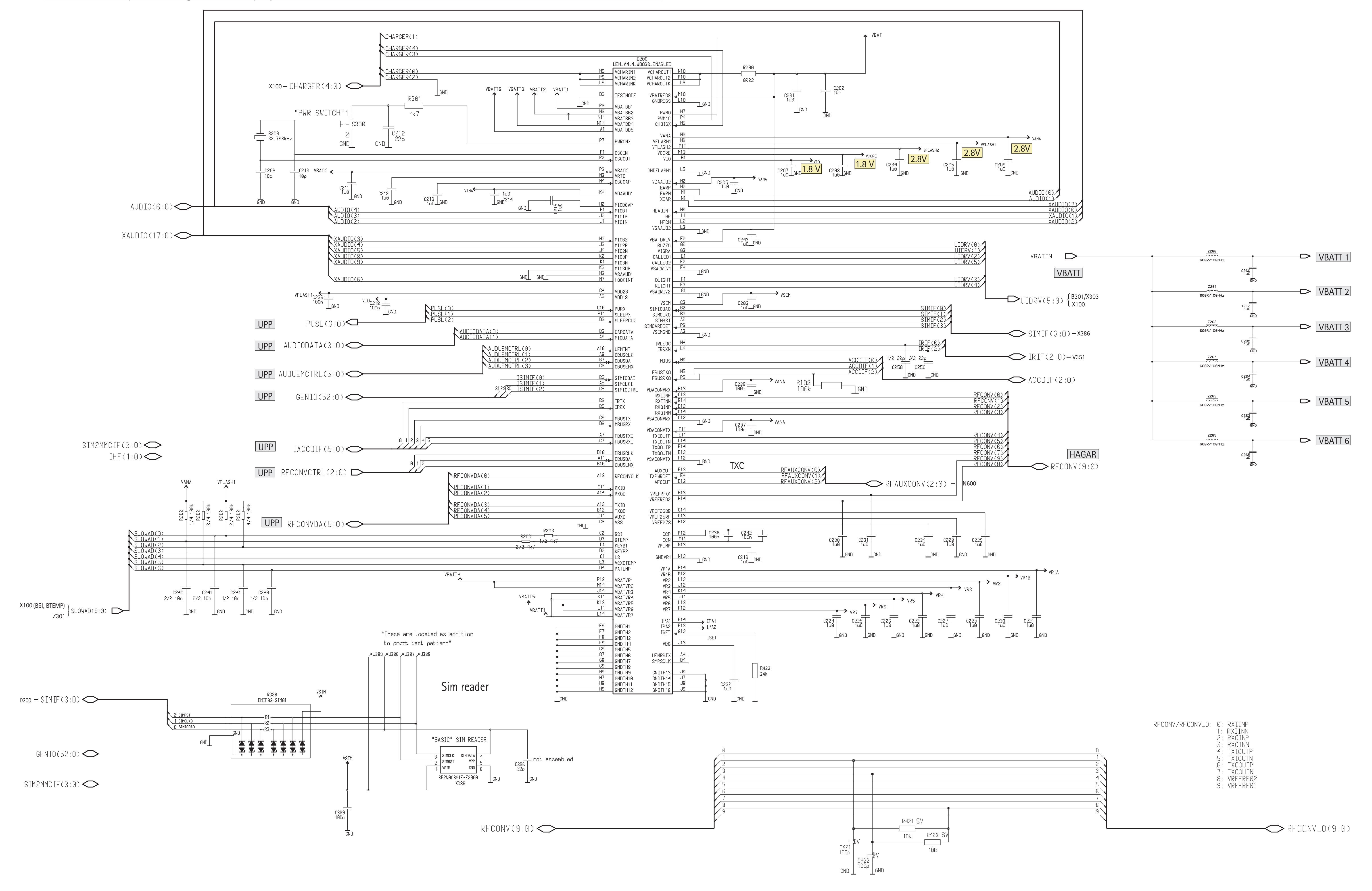




For After Sales
J100
J101
J102
X101
VBAT
VBATTRF
VBATT
BSI
BTEMP
GND
C107 22p
C109 1/2 27p
C109 2/2 27p
5,6,7,8= GND
BATTERY CONNECTOR
UEM
SLOWAD(6:0)
BSI
BATT TEMP
XEAR(3:0)
L104
EXC24CB102U
C111 1/2 1n
C111 2/2 1n
C101 10p
C102 10p
L101 150nH
FM Radio
FMANT
HEADINT
XMIC(2:0)
bottom connector
X100
CSS5011-0501R
XEARN
XMICP
HEADINT
XEARP
XMICN
Ext. Audio
not_assembled
L106 600R/100MHz
L107 600R/100MHz
C112 3n3
C113 3n3
Charger
VCHAR
F100 1.5A
L100 42R/100MHz
C100 1n0
C103 22p
MODEL
V100 1PMT16AT3
UEM
CHARGER(4:0)
Vibra
C108 12p
C104 33p
C114 18p
C115 33p
UIDRV(5:0)
MIC
Z100
C105 22p
L105 600R/100MHz
MIC(2:0)

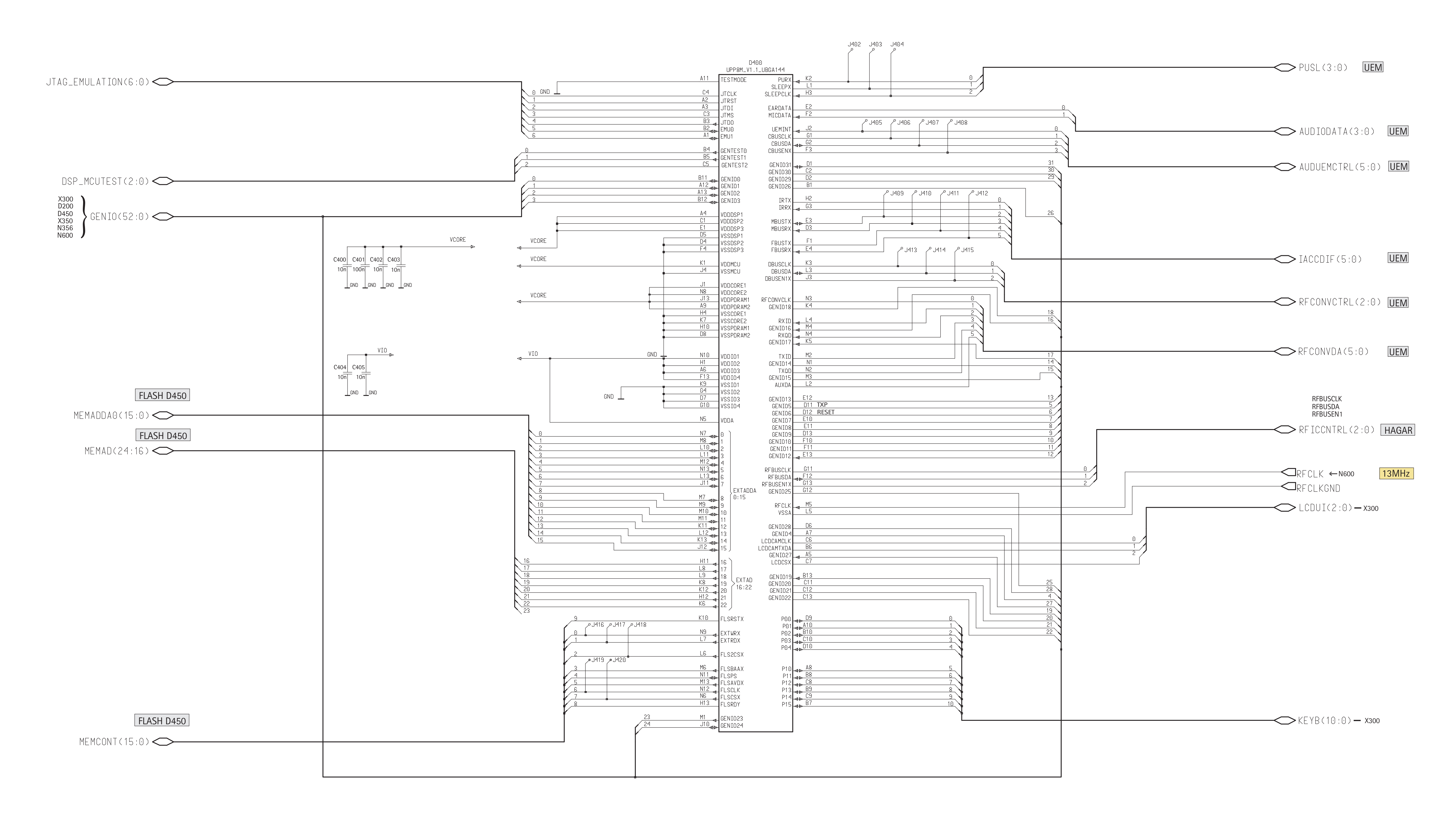


LCD connector
X300
VIO
VFLASH1
C302 1u0
C301 1u0
C303 1/2 100n
C303 2/2 100n
GND
not_assembled
UPP
GENIO(52:0)
UPP
LCDUI(2:0)
Side keys
S301
S302
UP
DOWN
Unused AD inputs connected to common 100k pull-up
D200
SLOWAD(6:0)
C319 1n0
Z301
EMIF10-1K010F1
B-TO-B CONNECTOR
Flip open/close
ROW4
ROW3
COL2
ROW2
COL1
ROW0
ROW1
COL3
COL4
X303
VBAT
R304 10R
PUMT1 V300
PUMT1 V301
RBS21S-30TE61 V329
R307 15R
R306 14V/46V
R305 470R
CL-270WB-D-T
V324
V325
V326
V327
VBACK
not_assembled
R310 3M3
SMD backup battery
G300 3V3
C309 22p
R311 100k
UPP
KEYB(10:0)
UEM
UIDRV(5:0)
CALL LED
B301
C308 10n
C306 27p
C307 18p
B302
"DCT3 SPEAKER"
L151
EXC24CB102U
"EARP"
"EARN"
"Close to UEM"
R164 1/2 22R
R164 2/2 22R
"MIC1N"
"MIC1P"
C151 2x33n 1/2 33n
C151 2x33n 2/2 33n
R157 2x2k2
C154 1n0
R152 2k2
"MICB1"
"MICN"
"MICP"
MIC(2:0) → X100
C160 1/2 10n
C160 2/2 10n
C156 18p
C152 27p
UEM
AUDIO(6:0)
C168 27p
C166 100n
XEAR(3:0) → X100
"HFCM"
"HF"
"MIC2N"
"MIC2P"
R165 1/2 22R
R165 2/2 22R
R156 2x2k2
C155 2x33n 1/2 33n
C155 2x33n 2/2 33n
C153 1/2 1n
C153 2/2 1n
R166 1k0
R167 1k0
C161 1/2 22p
C161 2/2 22p
C163 1/2 22p
C163 2/2 22p
R159 1/2 VWM16V
R159 2/2 VWM16V
R161 1/2 VWM16V
R161 2/2 VWM16V
"XEARN"
"XEARP"
"XMICN"
"XMICP"
XMIC(2:0) ← X100
"MICB2"
C165 100n
R155 100k
HEADINT ← X100
C157 1u0
R154 10k
C158 100n
UEM
XAUDIO(17:0)

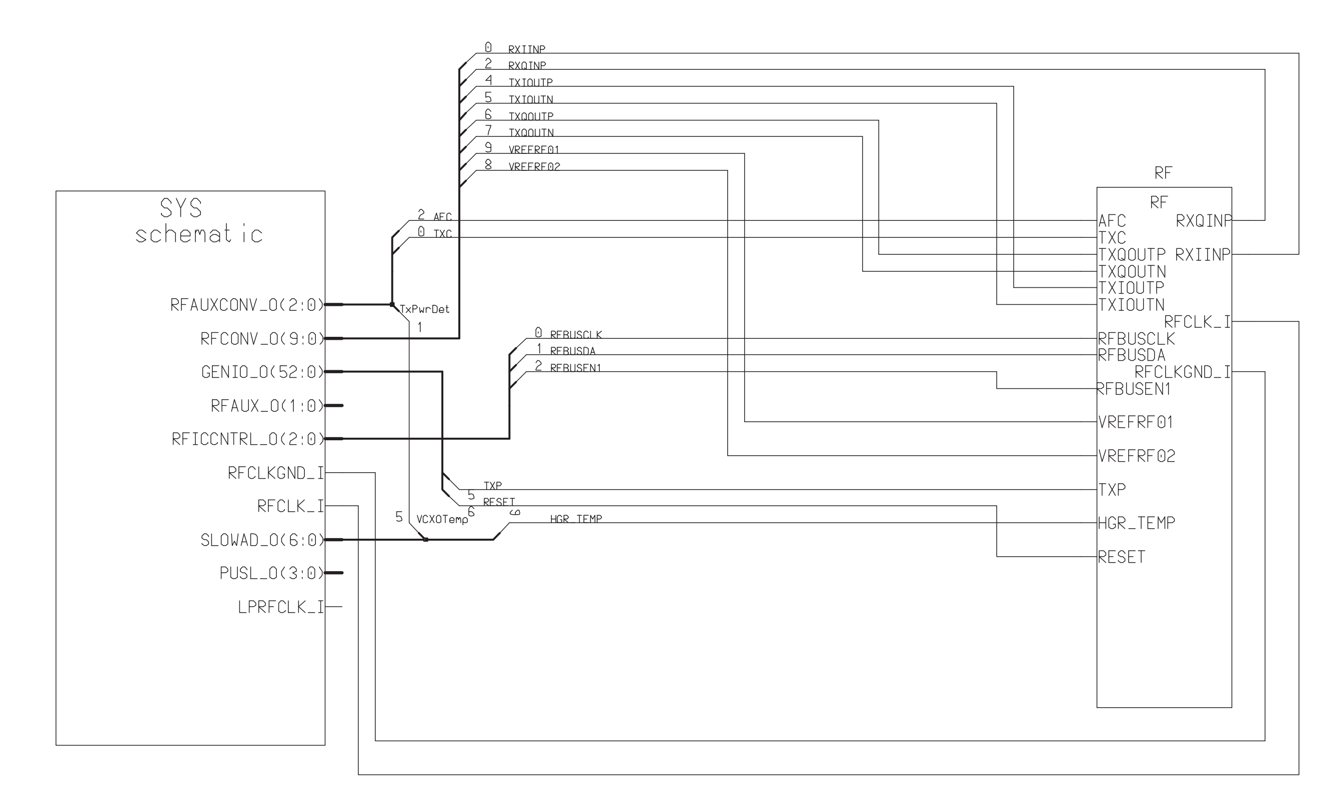


D200
UEM_V4.4_WDOGS_ENABLED
X100 – CHARGER(4:0)
"PWR SWITCH"
S300
R301
4k7
C312
22p
B200
32.768kHz
AUDIO(6:0)
XAUDIO(17:0)
UPP
PUSL(3:0)
AUDIODATA(3:0)
AUDUEMCTRL(5:0)
GENIO(52:0)
IACCDIF(5:0)
RFCONVCTRL(2:0)
RFCONVDA(5:0)
SIM2MMCIF(3:0)
IHF(1:0)
X100(BSI, BTEMP)
Z301
SLOWAD(6:0)
VBAT
R200
0R22
1.8 V
2.8V
VBATIN
VBATT
VBATT 1
VBATT 2
VBATT 3
VBATT 4
VBATT 5
VBATT 6
UIDRV(5:0)
B301/X303
X100
SIMIF(3:0) – X386
IRIF(2:0) – V351
ACCDIF(2:0)
R102
100k
HAGAR
RFCONV(9:0)
TXC
RFAUXCONV(2:0) – N600
"These are located as addition to prod test pattern"
Sim reader
D200 – SIMIF(3:0)
R388
EMIF03-SIM01
"BASIC" SIM READER
SF2W006S1E-E2000
X386
not assembled
GENIO(52:0)
SIM2MMCIF(3:0)
RFCONV(9:0)
RFCONV_0(9:0)
R421
R423
10k
C421
100p
C422
100p
RFCONV/RFCONV_0: 0: RXIINP
1: RXIINN
2: RXQINP
3: RXQINN
4: TXIOUTP
5: TXIOUTN
6: TXQOUTP
7: TXQOUTN
8: VREFRF02
9: VREFRF01

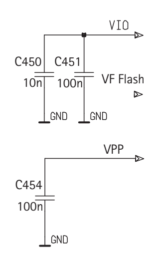
Customer Care Europe & Africa	Schematic diagrams	Version 4.0 Approved
SCCE Training Group	NHM-7	(PCB) Version LA-5_17
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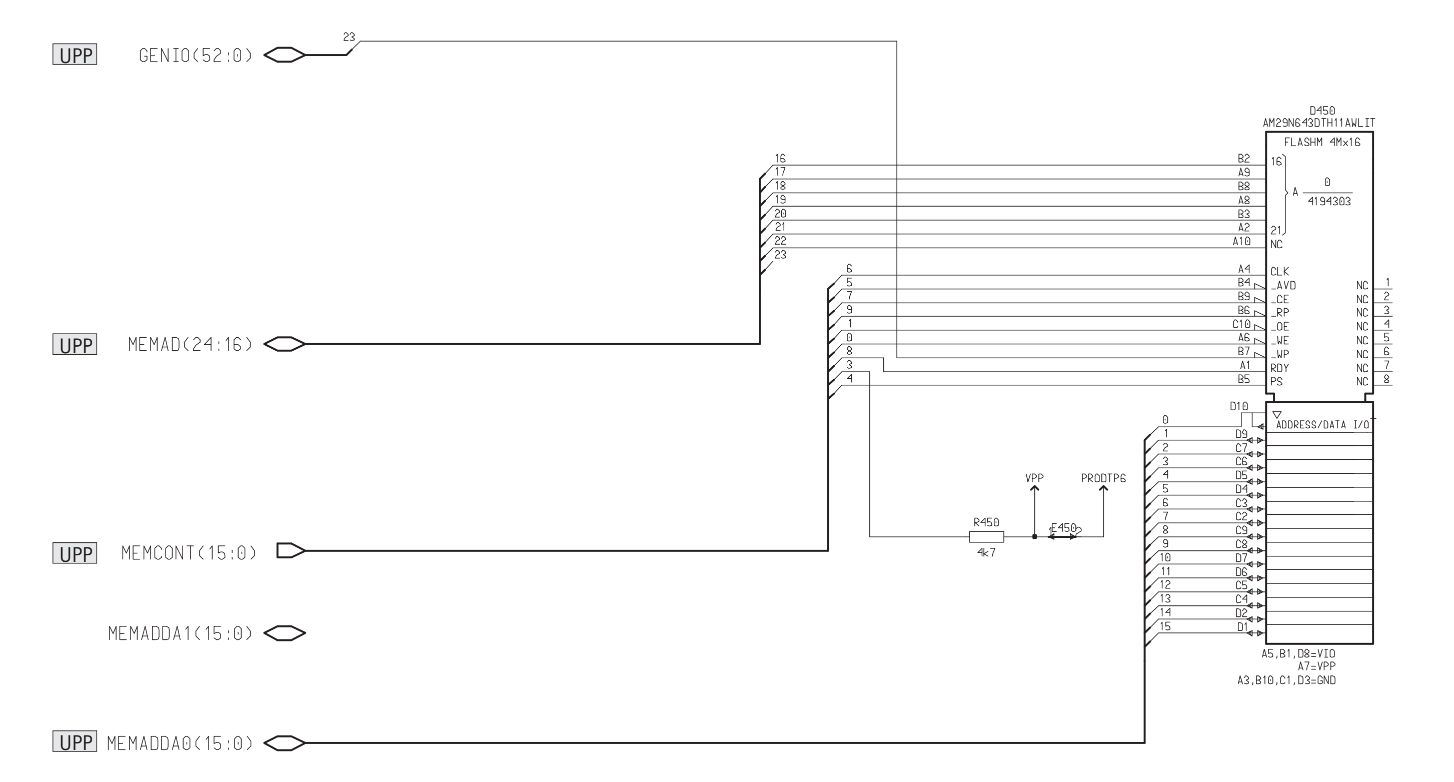
RF & BB



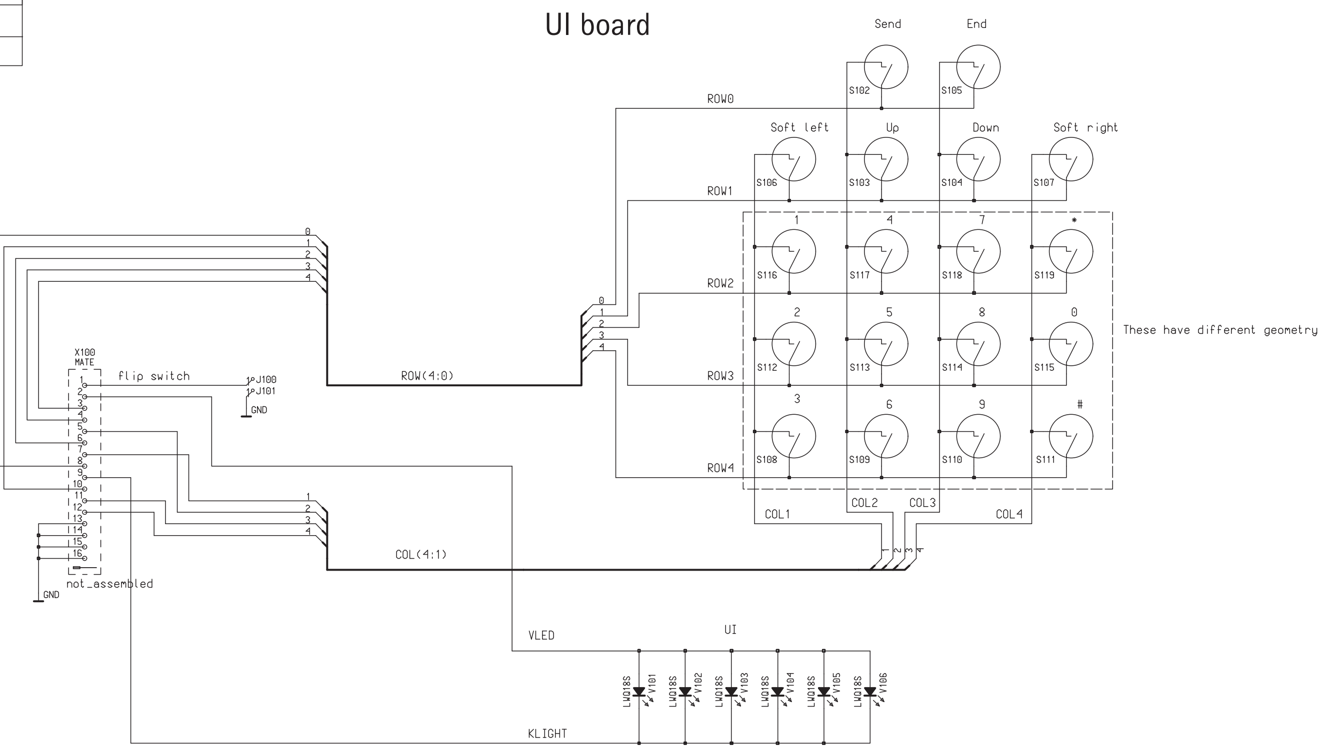
MEMFILTER



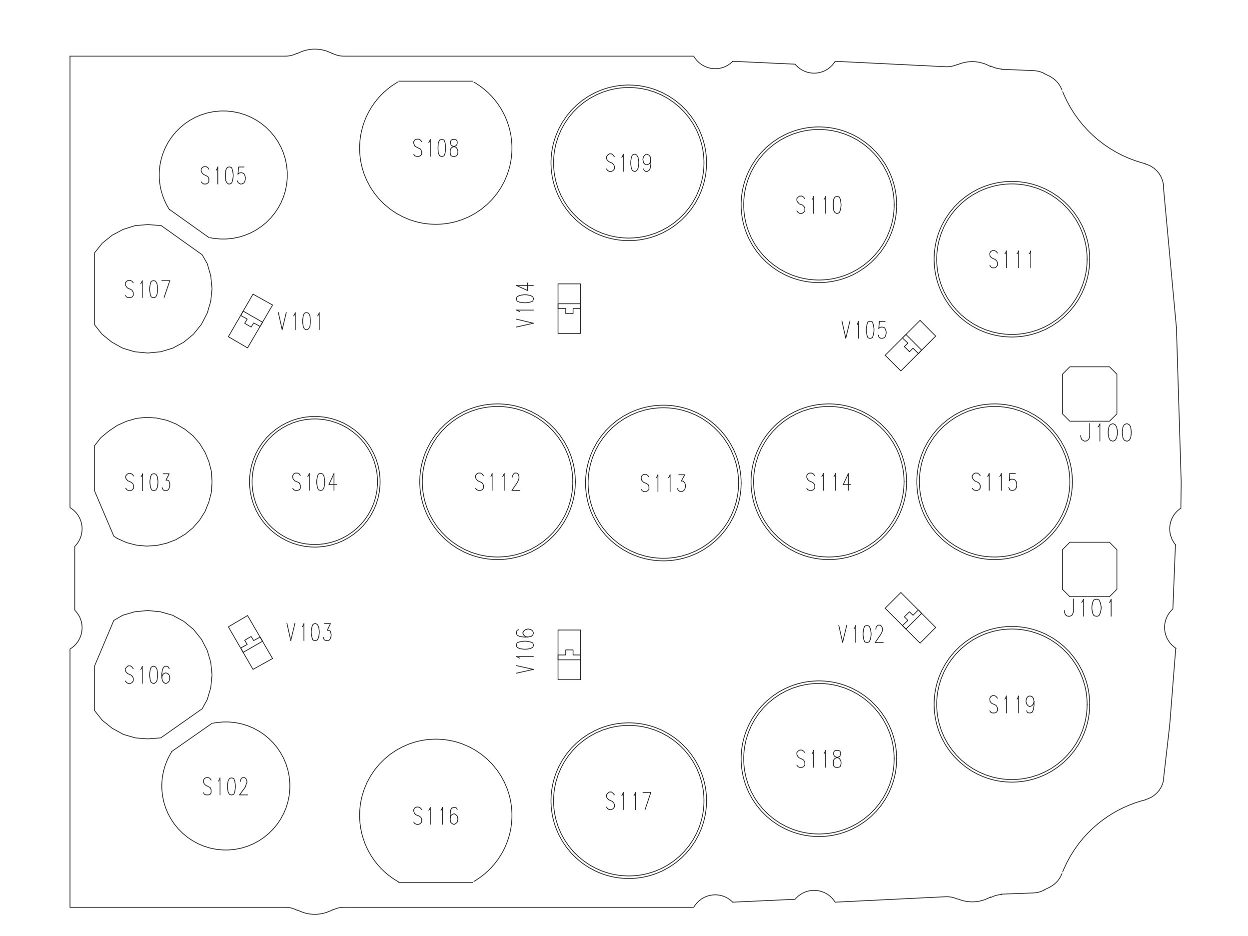
Flash memory



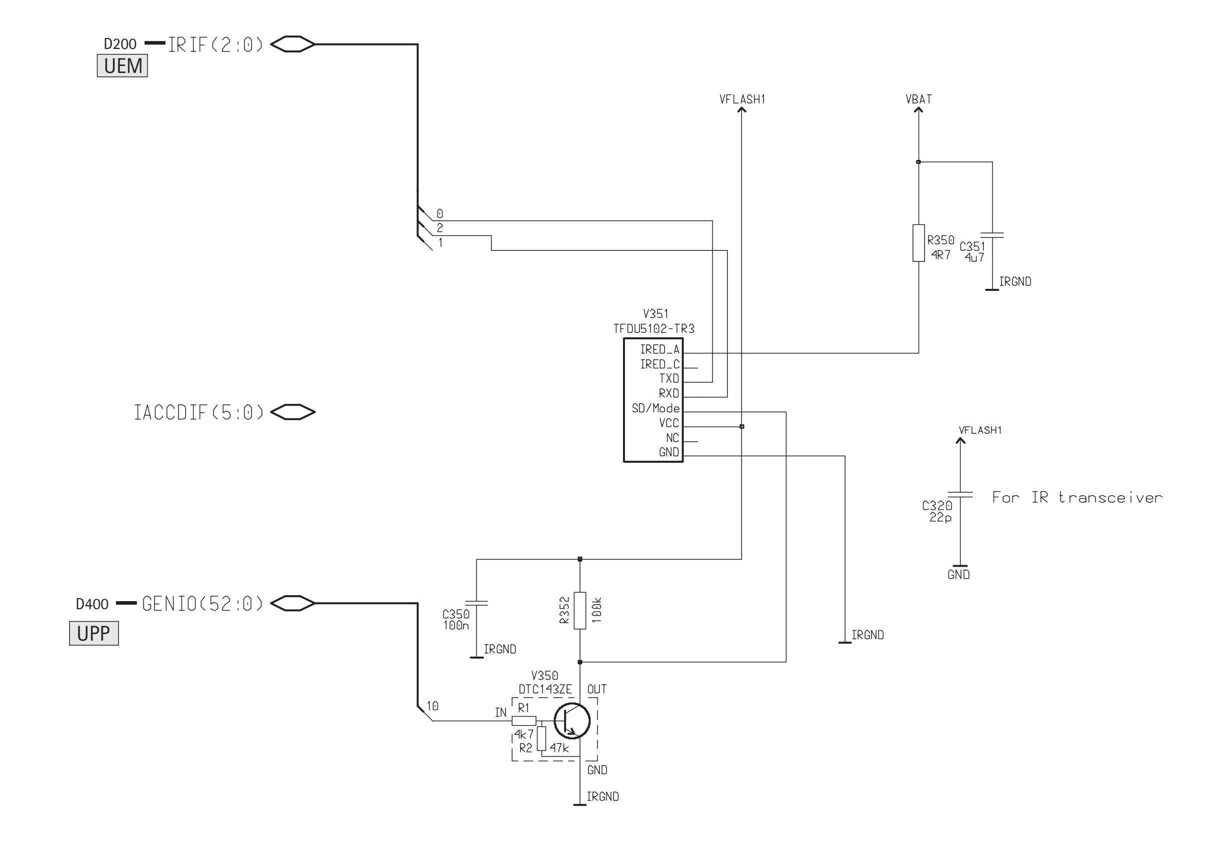
UI board



Layout diagram-LK5

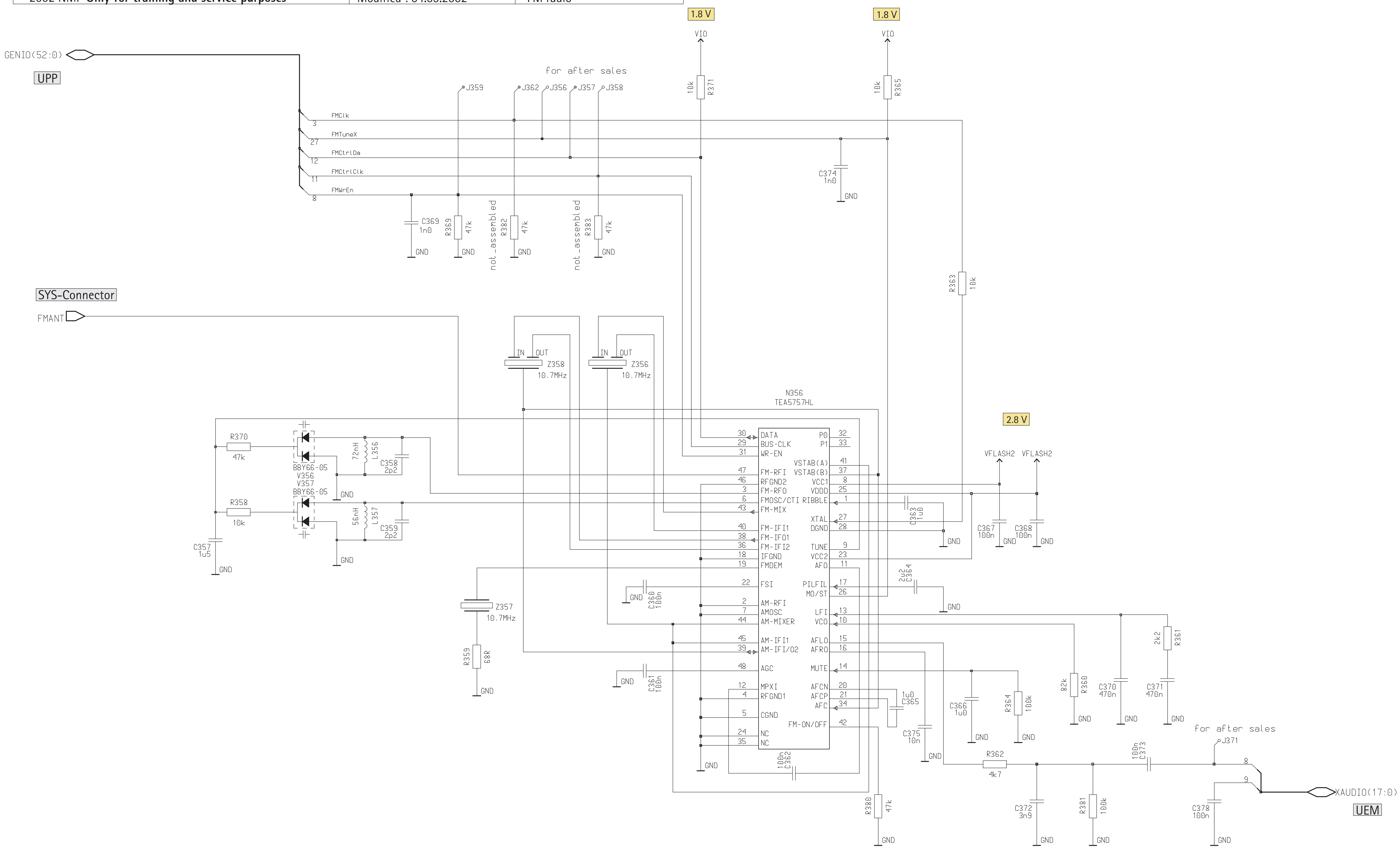


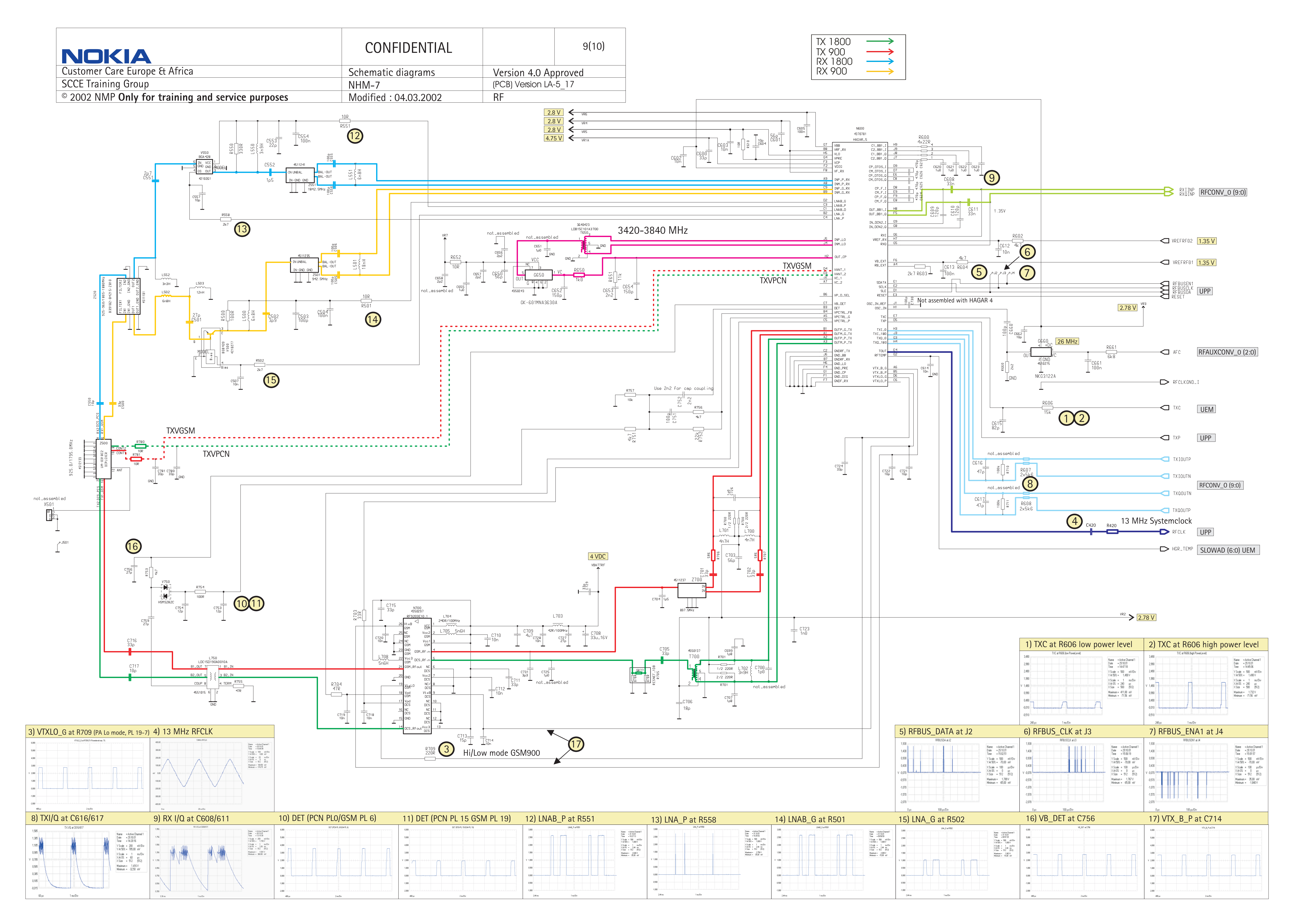
Infrared module



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FM radio




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Schematic diagrams
NHM-7
Modified : 04.03.2002
Version 4.0 Approved
(PCB) Version LA-5_17
RF
TX 1800
TX 900
RX 1800
RX 900
2.8 V
2.8 V
2.8 V
4.75 V
3420-3840 MHz
TXVGSM
TXVPCN
RXIINP
RXQINP
RFCONV_0 (9:0)
1.35 V
VREFRF02
VREFRF01
1.35 V
RFBUSEN1
RFBUSCLK
RFBUSDA
RESET
UPP
Not assembled with HAGAR 4
2.78 V
26 MHz
AFC
RFAUXCONV_0 (2:0)
RFCLKGND_I
TXC
UEM
TXP
UPP
TXIOUTP
TXIOUTN
RFCONV_0 (9:0)
TXQOUTN
TXQOUTP
13 MHz Systemclock
RFCLK
UPP
HGR_TEMP
SLOWAD (6:0) UEM
4 VDC
Use 2n2 for cap coupling
not_assembled
2.78 V
Hi/Low mode GSM900
1) TXC at R606 low power level
2) TXC at R606 high power level
3) VTXLO_G at R709 (PA Lo mode, PL 19-7)
4) 13 MHz RFCLK
5) RFBUS_DATA at J2
6) RFBUS_CLK at J3
7) RFBUS_ENA1 at J4
8) TXI/Q at C616/617
9) RX I/Q at C608/611
10) DET (PCN PL0/GSM PL 6)
11) DET (PCN PL 15 GSM PL 19)
12) LNAB_P at R551
13) LNA_P at R558
14) LNAB_G at R501
15) LNA_G at R502
16) VB_DET at C756
17) VTX_B_P at C714

B
B200 – D7
B301 – D1
C
C100 – E7
C101 – F7
C102 – F7
C103 – E7
C105 – F7
C107 – B2
C109 – B2
C111 – F7
C112 – E7
C113 – E7
C115 – A2
C151 – D6
C152 – F7
C154 – D6
C155 – D6
C156 – F7
C157 – F7
C158 – E7
C160 – D2
C161 – F7
C163 – E7
C165 – D6
C166 – D6
C168 – D6
C201 – E7
C202 – A2
C203 – A2
C204 – F7
C205 – E7
C206 – E7
C207 – D6
C208 – E6
C209 – E7
C210 – D7
C211 – F6
C212 – D7
C213 – D7
C214 – D7
C215 – D6
C218 – E6
C219 – E7
C221 – E7
C222 – E6
C223 – E7
C224 – E6
C225 – E6
C226 – E6
C227 – F6
C228 – F6
C229 – E6
C230 – E6
C231 – E6
C232 – E6
C233 – E7
C234 – F6
C235 – D7
C236 – E6
C237 – E6
C238 – E7
C239 – D6
C240 – D5
C241 – D6
C242 – E7
C243 – B2
C250 – F6
C260 – E7
C261 – E7
C262 – F7
C263 – E7
C264 – E7
C265 – F6
C302 – F4
C303 – B5
C306 – D6
C307 – D6
C308 – D2
C309 – F7
C312 – E4
C319 – A2
C320 – C6
C350 – C6
C351 – C5
C357 – C4
C358 – C4
C359 – C4
C360 – B5
C361 – C4
C362 – B4
C363 – C4
C364 – B5
C365 – B5
C366 – B4
C367 – C4
C368 – B5
C369 – C5
C370 – B4
C371 – B4
C372 – B4
C373 – B4
C375 – B5
C378 – D6
C389 – B3
C400 – D6
C401 – D6
C402 – E6
C403 – E5
C404 – E5
C405 – E5
C420 – B5
C421 – E6
C422 – E6
C450 – E6
C451 – E6
C454 – F5
C470 – D5
C471 – D5
C472 – D5
C500 – A7
C501 – A6
C502 – A6
C503 – A6
C504 – A6
C505 – A5
C506 – A5
C507 – A6
C550 – A7
C551 – A6
C552 – A6
C553 – A6
C554 – B6
C555 – B4
C556 – A5
C600 – B5
C601 – A5
C602 – B4
C603 – A4
C604 – B4
C605 – A5
C608 – A4
C609 – A4
C610 – A4
C611 – A4
C612 – A4
C613 – A5
C615 – A5
C616 – B4
C617 – B4
C620 – A4
C621 – A4
C622 – A4
C623 – A5
C650 – B4
C652 – B4
C653 – B4
C654 – B4
C655 – B4
C657 – B4
C660 – A4
C661 – A4
C662 – A4
C699 – B5
C701 – B5
C702 – B5
C703 – B5
C704 – C7
C705 – A6
C707 – A5
C708 – C2
C709 – B6
C710 – C7
C711 – C6
C712 – C6
C713 – B6
C714 – C6
C715 – B7
C716 – B7
C717 – A7
C718 – B7
C719 – B7
C720 – B7
C721 – A5
C722 – A5
C723 – B5
C724 – B7
C726 – B5
C727 – B6
C728 – B6
C729 – F2
C731 – B6
C751 – B5
C752 – B5
C753 – A6
C754 – A6
C756 – A6
C759 – B7
C780 – A7
C781 – A7
D
D200 – E6
D400 – E5
D450 – F6
F
F100 – E7
G
G300 – F1
G650 – B4
G660 – A4
J
J002 – B4
J003 – B4
J004 – B4
J100 – B1
J356 – C5
J357 – C5
J358 – C5
J359 – C5
J362 – C5
J371 – B4
J386 – C3
J387 – C3
J388 – C3
J402 – B2
J403 – B2
J404 – B2
J405 – B2
J406 – B2
J407 – A2
J408 – B2
J409 – A2
J410 – A2
J411 – A2
J412 – A2
J413 – B2
J414 – B2
J415 – B2
J416 – C3
J419 – C3
J470 – B1
J471 – C3
J472 – C3
J473 – C3
J474 – C1
L
L100 – E7
L104 – F7
L105 – F7
L106 – E7
L107 – E7
L151 – D2
L356 – C4
L357 – C4
L470 – A3
L471 – A3
L472 – A3
L500 – A6
L501 – A5
L502 – A6
L503 – A6
L550 – A6
L551 – A5
L552 – A6
L700 – B5
L701 – B5
L703 – B6
L704 – C7
L705 – C7
L708 – B7
L750 – B7
N
N356 – C5
N600 – A5
N700 – B7
R
R102 – F6
R152 – D6
R154 – E7
R155 – F7
R156 – D6
R157 – D6
R159 – F7
R161 – E7
R164 – A2
R165 – D7
R166 – D6
R167 – D6
R200 – E7
R202 – D6
R203 – D6
R301 – E5
R304 – E5
R305 – E5
R306 – F5
R307 – E5
R311 – D6
R350 – B5
R352 – B5
R358 – C4
R359 – B5
R360 – C4
R361 – B4
R362 – B4
R363 – C5
R364 – B4
R369 – C5
R365 – C5
R370 – C4
R371 – C5
R380 – C5
R381 – B4
R388 – A2
R420 – B5
R421 – E6
R422 – F6
R423 – E6
R450 – F5
R500 – A6
R501 – A6
R502 – A6
R550 – A6
R551 – A6
R558 – A6
R600 – A4
R602 – A4
R603 – A5
R604 – A5
R606 – A5
R607 – B4
R608 – B4
R610 – B4
R650 – B4
R651 – B4
R652 – B4
R660 – A4
R661 – A4
R700 – B5
R701 – A5
R703 – B6
R704 – B7
R705 – C7
R706 – B5
R707 – B5
R709 – B7
R751 – B6
R752 – B5
R753 – A6
R754 – B6
R755 – A6
R756 – B5
R757 – B6
R780 – A7
R781 – A7
S
S300 – F1
S301 – D1
S302 – D2
T
T650 – A4
T700 – A6
V
V100 – E7
V300 – E5
V301 – E5
V324 – D4
V325 – F4
V326 – E4
V327 – E4
V329 – E5
V350 – B6
V351 – C7
V356 – C4
V357 – C4
V500 – A6
V550 – A6
V750 – B6
X
X101 – B2
X300 – E4
X303 – F5
X386 – B3
Z
Z260 – E7
Z261 – E7
Z262 – F7
Z263 – E7
Z264 – E7
Z265 – F6
Z301 – F5
Z356 – C5
Z357 – B5
Z358 – C5
Z500 – A7
Z501 – A5
Z520 – A6
Z551 – A5
Z700 – B6

